



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

648.3536

Job Sheet 214791

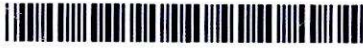


Part No: 648.3536

Job Qty: 20 pcs

DAS
21
9-88

Part Name: Mid RH Girt Strip



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 11/2/20

Job Tracking No:

Due Date: 11/25/20

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG 648.3500 REV C IPP REV:A 20.11.02 NEW ISSUE FK VERIFY DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Waterjet - Omax - 1	20 pcs		11/23/20	0.17	2.00	Waterjet - Omax		ac 20/11/10
							Waterjet - Omax - SCH-S		
110	QC 2	20 pcs		11/23/20	0.00	0.00	QC 2 - 1		ac 20/11/10
							QC 2 - 12		
							QC 2 - 14		
							QC 2 - 17		
							QC 2 - 19		
							QC 2 - 2		
							QC 2 - 20		
							QC 2 - 22		
							QC 2 - 23		
							QC 2 - 25		
							QC 2 - 32		
							QC 2 - 33		
							QC 2 - 35		
							QC 2 - 39		
							QC 2 - 4		
							QC 2 - 40		
							QC 2 - 44		
							QC 2 - 45		
							QC 2 - 48		
							QC 2 - 49		
							QC 2 - 50		
							QC 2 - 51		
							QC 2 - 52		
							QC 2 - 57		
							QC 2 - 62		
							QC 2 - 63		
							QC 2 - 8		
							QC 2 - 66		
							QC 2 - 64		

Part: 648.3536

Job No: 214791

Serial No/Batch: S311838

Revision:

Inspector:

Exp Date:

Instructions:

Container No: S311838

0 Date: 11/10/20

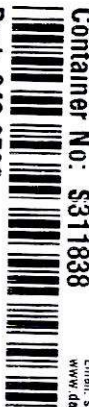
DART

AEROSPACE

Unit Aerospace Ltd.,
1270 Aberdeen Street,
Hewesbury, ON K6A 1K7
CANADA
TEL: 1 813 632-5200
Email: sales@dartco.com
www.dartaerospace.com

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Part: 648.3536
 Job No: 214791
 Serial No/Batch: S311838
 Revision:
 Inspector:
 Exp Date:
 Instructions:



Container No: S311838

Dart Aerospace Ltd.
 1270 Aberdeen St
 Hawkesbury, ON K6A 1K7
 Tel: (613) 632-5200
 Email: sales@dartaero.com
 www.dartaero.com

Date: 11/10/20

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					QC 2 - 65	
					QC 2 - 5	
					QC 2 - 71	
					QC 2 - 73	
					QC 2 - 69	
					QC 2 - 76	
					QC 2 - 86	
					QC 2 - 83	
112	Small Fab - 2 - B4B	20 pcs	11/24/20	0.00 2.00	Small Fab - 1 - B4B	J.C.L. 20-11-11
					Small Fab - 2 - B4B	
					Small Fab - 3 - B4B	
					Small Fab - 4 - B4B	
					Small Fab - 5 - B4B	
					Small Fab - 6 - B4B	
					Small Fab - 7 - B4B	
					Small Fab - 8 - B4B	
					Small Fab - 9 - B4B	
					Small Fab - Various 1 - B4B	
					Small Fab - SCH-B	
114	QC 5	20 pcs	11/24/20	0.00 0.00	QC 5 - 10	
					QC 5 - 12	
					QC 5 - 17	
					QC 5 - 18	
					QC 5 - 19	
					QC 5 - 22	
					QC 5 - 24	
					QC 5 - 3	
					QC 5 - 43	
					QC 5 - 49	
					QC 5 - 51	
					QC 5 - 58	
					QC 5 - 68	
					QC 5 - 9	
					QC 5 - 50	
					QC 5 - 30	
					QC 5 - 40	NOV 11 2020
					QC 5 - 61	
					QC 5 - 81	
					QC 5 - 82	
					QC 5 - SCH-B	
120	NV5000 - 1 - B4B	20 pcs	11/24/20	1.00 20.00	NV5000 - 1 - B4B	J.C.L. 20-11-11
					NV5000 - 2 - B4B	
130	QC 2	20 pcs	11/24/20	0.00 0.00	QC 2 - 1	
					QC 2 - 12	
					QC 2 - 14	
					QC 2 - 17	
					QC 2 - 19	
					QC 2 - 2	
					QC 2 - 20	
					QC 2 - 22	
					QC 2 - 23	
					QC 2 - 25	
					QC 2 - 32	J.C.L. 20-11-11
					QC 2 - 33	
					QC 2 - 35	
					QC 2 - 39	
					QC 2 - 4	
					QC 2 - 40	



see attached
mat'l certs req'd

debur + remove sharp edges

					QC 2 - 44	
					QC 2 - 45	
					QC 2 - 48	
					QC 2 - 49	
					QC 2 - 50	
					QC 2 - 51	
					QC 2 - 52	
					QC 2 - 57	
					QC 2 - 62	
					QC 2 - 63	
					QC 2 - 8	
					QC 2 - 66	
					QC 2 - 64	
					QC 2 - 65	
					QC 2 - 5	
					QC 2 - 71	
					QC 2 - 73	
					QC 2 - 69	
					QC 2 - 76	
					QC 2 - 86	
					QC 2 - 83	
140	QC 8	20 pcs	11/24/20	0.00 0.00	QC 8 - 12	
					QC 8 - 14	
					QC 8 - 17	
					QC 8 - 20	
					QC 8 - 25	
					QC 8 - 3	
					QC 8 - 32	DAS
					QC 8 - 33	33 20/11/2
					QC 8 - 35	9-89
					QC 8 - 39	
					QC 8 - 4	
					QC 8 - 44	
					QC 8 - 45	
					QC 8 - 49	
					QC 8 - 58	
					QC 8 - 8	
					QC 8 - 9	
					QC 8 - 68	
					QC 8 - 67	
					QC 8 - 1 (A)	
					QC 8 - 47	
					QC 8 - 40	
					QC 8 - 52	
					QC 8 - 23	
					QC 8 - 57	
					QC 8 - 76	
					QC 8 - 61	
					QC 8 - 66	
					QC 8 - 73	
					QC 8 - 82	
142	Small Fab - 2 - B4B	20 pcs	11/25/20	0.00 2.00	Small Fab - 1 - B4B	DAS 58 NOV 12 2020
					Small Fab - 2 - B4B	9-89
					Small Fab - 3 - B4B	
					Small Fab - 4 - B4B	
					Small Fab - 5 - B4B	
					Small Fab - 6 - B4B	
					Small Fab - 7 - B4B	
					Small Fab - 8 - B4B	

144	QC 5	20 pcs	11/25/20	0.00	0.00	Small Fab - 9 - B4B	
						Small Fab - Various 1 - B4B	
						Small Fab - SCH-B	
						QC 5 - 10	
						QC 5 - 12	
						QC 5 - 17	
						QC 5 - 18	
						QC 5 - 19	
						QC 5 - 22	
						QC 5 - 24	
						QC 5 - 3	
						QC 5 - 43	
						QC 5 - 49	
						QC 5 - 51	
						QC 5 - 58	
						QC 5 - 68	
						QC 5 - 9	
						QC 5 - 50	
						QC 5 - 30	
						QC 5 - 40	
						QC 5 - 61	
						QC 5 - 81	
						QC 5 - 82	
						QC 5 - SCH-B	
150	Packaging 3-1 - Stock - B4B	20 pcs	11/25/20	0.00	0.00	Packaging 3 - 1 - B4B	
						Packaging 3 - 2 - B4B	
						Packaging 3 - 3 - B4B	
						Packaging 3 - 4 - B4B	
						Packaging 3 - 5 - B4B	
						Packaging 3 - 6 - B4B	
						Packaging 3 - 7 - B4B	
						Packaging 3 - 8 - B4B	
						Packaging 3 - 9 - B4B	
						Packaging 3 - 10 - B4B	
						Packaging 3 - 11 - B4B	
						Packaging 3 - 12 - B4B	
						Packaging 3 - 13 - B4B	
						Packaging 3 - 14 - B4B	
						Packaging 3 - 15 - B4B	
						Packaging 3 - 16 - B4B	
						Packaging 3 - 17 - B4B	
						Packaging 3 - 18 - B4B	
						Packaging 3 - 19 - B4B	
						Packaging 3 - 20 - B4B	
						Packaging 3 - 21 - B4B	
						Packaging 3 - 22 - B4B	
						Packaging 3 - 23 - B4B	
						Packaging 3 - 24 - B4B	
						Packaging 3 - 25 - B4B	
						Packaging 3 - 26 - B4B	
						Packaging 3 - 27 - B4B	
						Packaging 3 - 28 - B4B	
						Packaging 3 - 29 - B4B	
						Packaging 3 - 30 - B4B	
						Packaging 3 - 31 - B4B	
						Packaging 3 - 32 - B4B	
						Packaging 3 - 33 - B4B	
						Packaging 3 - 34 - B4B	

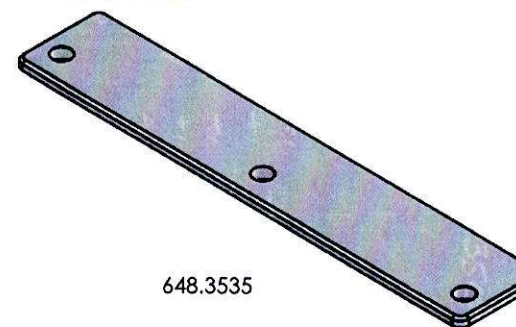
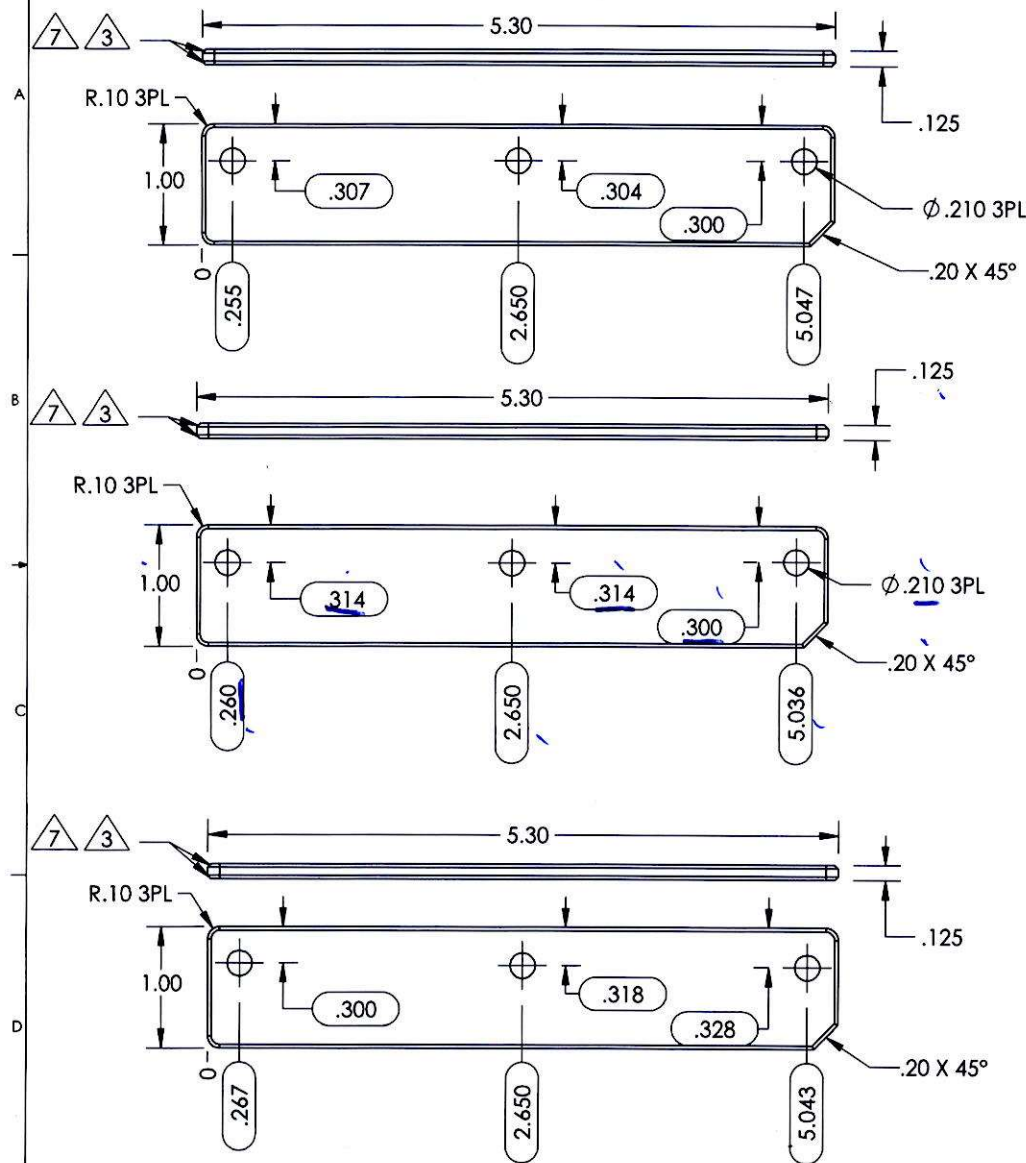
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
				Packaging 3 - 37 - B4B	
160 QC 21 - SA	20 pcs	11/25/20	0.00 0.00	QC 21 - SA - 21	
				QC 21 - SA - 70	NOV 13 2020
				QC 21 - SA - 9	
				QC 21 - SA - 77	DAS
				QC 21 - SA - 28	21
Part Op 100 - 1-Cut as per DWG. DWG. Rev: <u>C</u> PROG. Rev: <u>C</u> 2-Deburr if necessary Descriptions: 110 - QC2- Inspect parts off machine FAI/FAIB 112 - Mill holes chmfs as per DWG 120 - 1-Machine as per folio FD412 FOLIO REV: <u>AA</u> DWG REV: <u>C</u> 2-Deburr 130 - QC2- Inspect parts off machine FAI/FAIB 140 - QC8- Inspect parts - second check 142 - Score surface, before applying primer, using 40 GRIT sand paper. 150 - Identify as per dwg & Stock Location: _____ 160 - QC21- Final Inspection - Work Order Release					
Job BOM					
Part / Item	Component Name	Quantity	Operation	Container	
M301S11GA-H50	301 SS Sheet - 1/2 hard 0.125	.7400 sf (.037 ea)	100-Waterjet - Omax - 1	S302475	
Job Allocations					
Operation	Component Part	Required	Inventory	Allocated	
100-Waterjet - Omax - 1	M301S11GA-H50	1	22	0	
Part Specifications					
Specifications could not be found.					

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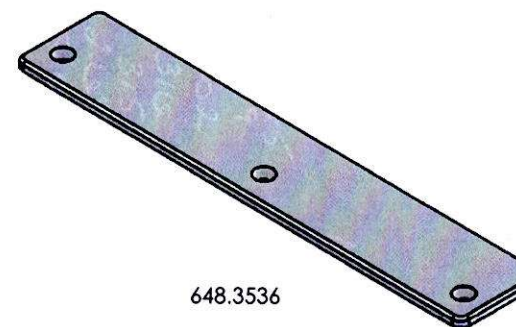
Released on 10/21/2020

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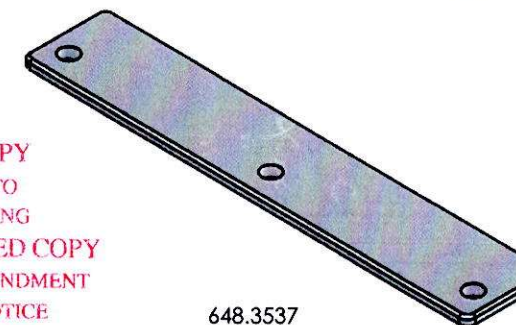
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



648.3535



648.3536



648.3537

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 214791 MWS
2071-02

ORIGINAL DATE 08-16-10		DART AEROSPACE 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY F. ANDERSON	CHECKED BY P. BRAVO	APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
DRAWING APPROVAL P. BRAVO 11-15-10		SHEETMETAL	
CONTRACT NO.		SITE B	REV. C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°		DWG. NO. 648.3500	SHEET 8 OF 12
SCALE NONE			

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐ ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled		FAULT CATEGORY ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					

ORDER NOTES

FAI measurements required for all parts on this order.

Lines 1-3 are priority.

Ship all lines Fedex Standard Overnight through account 198549495.

****CRITICAL REQUIREMENT TO DEBURR AND REMOVE SHARP EDGES****

Terms & Condition of Purchasing (Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements.

Please visit www.dartaerospace.com for PO Terms & Condition and Quality Clause Standard Requirements for San Diego, CA, AIWI-7.4.1QCS

PO order acknowledgement required.

All items/services subject to our inspection and acceptance.

Packing slip required with each shipment.

Certificate of

Conformity

is required.

Material and Outside Process Certifications required with each shipment

Remit to: DART Aerospace Ltd., 1270 Aberdeen Street, Hawkesbury, Ontario K6A 1K7 Canada

Tel: 613 632 5200

Fax: 613 632 5246

accounting@dartaero.com

GST/HST 10127 2607

Note: A minimum 15% restocking fee is applicable. Custom items are non-refundable. Full warranty details are available at www.dartaerospace.com

International / US Wires:

Swift Code: CHASUS33 Bank Routing #: 021000021 Account #: 133281000

Bank Name: JPMorgan Chase Bank 201 St. Charles Ave., New Orleans, LA USA 70170

Account Name: DART Aerospace Ltd.

Notification October 2018: Our banking information has remained unchanged

Latest Revision Provided Unless Otherwise Requested

Plex 10/30/20 1:32 PM dart.crooks.caillin



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

ORDER ACKNOWLEDGEMENT

CUSTOMER	ORDER
Customer Code: CAPIC01 Sold To: DART Aerospace Ltd - Vista 3030 Enterprise Court, Suite A Vista, CA 92081 USA Phone: 760-509-1617 Ship To: DART Aerospace Ltd - Vista 3030 Enterprise Court, Suite A Vista, CA 92081 USA Phone: (760) 724-5300	Order No : 30757 Date: 10/29/20 Ship-To Contact: Ernie Navarro Email: enavarro@dartaero.com Cust PO No: POSD004481 FOB: Shipping Point Ship Via: Freight Terms: PrePaid Terms: Net 30 INCO Terms: Ex Works Order Taker: Tori Sera Order Taker Phone: Order Taker Email: tsera@dartaero.com

Line No	Due Date	Ship Date	Part	Description/Note	Quantity	Unit	Price	Unit	Extended Price
1	11/30/20	11/30/20	648.3535	Fwd RH Girt Strip Build per DWGP/N 648.3500Rev C. Adhereto all notes andflag notes onDWG. **CRITICALREQUIREMENTTO DEBURRAND REMOVE SHARPEDGES	50	pcs	\$38.96USD	pcs	\$1,948.10 USD
2	11/30/20	11/30/20	648.3538	Aft Girt Strip Build per DWGP/N 648.3500Rev C. Adhereto all applicablenotes and flagnotes on DWG. **CRITICALREQUIREMENTTO DEBURRAND REMOVE SHARPEDGES**	25	pcs	\$14.62USD	pcs	\$365.41 USD
3	11/30/20	11/30/20	648.3539	RH Aft Girt Strip Build per DWGP/N 648.3500Rev C. Adhereto all applicablenotes and flagnotes on DWG. **CRITICALREQUIREMENTTO DEBURRAND REMOVE SHARPEDGES	25	pcs	\$14.55USD	pcs	\$363.69 USD
4	11/30/20	11/30/20	648.3540	Fwd Girt Strip Build per DG /N648.3500 RevC. Adhere to allapplicable notesand flag noteson DWG. **CRITICALREQUIREMENTTO DEBURRAND REMOVE SHARPEDGES**	100	pcs	\$10.28USD	pcs	\$1,028.10 USD
5	12/7/20	12/7/20	648.3537	Aft RH Girt Strip Build per DWGP/N 648.3500Rev C. Adhereto all applicablenotes and flagnotes on DWG. **CRITICALREQUIREMENTTO DEBURRAND REMOVE SHARPEDGES**	25	pcs	\$10.09USD	pcs	\$252.26 USD
6	12/7/20	12/7/20	648.3536	Mid RH Girt Strip Build per DWGP/N 648.3500Rev C. Adhereto all applicablenotes and flagnotes on DWG. **CRITICALREQUIREMENTTO DEBURRAND REMOVE SHARPEDGES**	20	pcs	\$38.96USD	pcs	\$779.24 USD
7	11/30/20	11/30/20	MISC	MISCELLANEOUS Non RecurringCharge-Programmingfor 648.3537,648.3538,648.3539 &648.3540	4	pcs	\$78.00USD	pcs	\$312.00 USD
8	11/30/20	11/30/20	MISC	MISCELLANEOUS Non-RecurringCharge-Programmingfor 648.3535 &648.3536	2	pcs	\$95.00USD	pcs	\$190.00 USD
Sub Total									\$5,238.80 USD
Grand Total									\$5,238.80 USD

Plex 10/30/20 1:32 PM dart.crooks.caitlin

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M301S11GA

PO / BATCH NO.: POHB047051

DATE: SEP 23 2020

S 302475

MATERIAL CERT REC'D: YES

THICKNESS ORDERED: .125

QUANTITY RECEIVED: 30SF

THICKNESS RECEIVED: .125

QUANTITY INSPECTED: 30SF

SHEET SIZE ORDERED: 3'x10'

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: 3'x10'

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	AMS 5518 / ASTM A666
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	HIT 7592253
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY: DAS

SIGNED OFF BY:

DATE: SEP 23 2020 82
9-89

DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

United Performance Metals

Paul Isaacs
Paul Isaacs
Quality Associate

Customer Name: TW Metals - Exton
Customer PO: M49426595
UPM Sales Order: 755822
Date: 3/17/2020
Description/Form: STAINLESS 301 1/2 HARD - SHEET
Heat Number: 7592253 Ingot: 19L00356506

Width: 36.0000 Length: 120.0000
Size: .1250
Customer P/N:
Packing List Number: 143346-1
Quantity: 1092 LB 7 pc.

		AK Steel Corporation Metallurgical Test Report Coshocton Works 17400 State Route 16 Coshocton, OH 43812 U.S.A.		Page 1											
				Load No. 5391843 Srm No. 5391843											
C U S T O M E R	UNITED PERFORMANCE METALS INC 3475 SYMMES RD HAMILTON, OH 45015		S H I P T O	UNITED PERFORMANCE METALS O'NEAL PERFORMANCE METALS METAL PROCESSING DIVISION 3475 SYMMES ROAD HAMILTON, OH 45015											
	MILL ORDER NO. 271940-3395 PROCESSOR ORDER NO. CIN-35836-P14 BUYERS ORDER NO. CIN-35836-P14 PART NO. ENGLISH UNITS .1250 NOM 36.0000 X 120.0000 -PRODUCT:- METRIC UNITS														
LIFT ID	PIECE	HEAT	PARENT LIFT ID	NET WEIGHT	OUTSIDE PROCESSOR ID										
729941-03-001	21	7592253	729941-03	3,285 LBS. 1,490 KG.	19L00356501										
729941-03-002	21	7592253	729941-03	3,260 LBS. 1,479 KG.	19L00356502										
729941-03-003	21	7592253	729941-03	3,275 LBS. 1,486 KG.	19L00356503										
729941-03-004	21	7592253	729941-03	3,270 LBS. 1,483 KG.	19L00356504										
729941-03-005	21	7592253	729941-03	3,275 LBS. 1,486 KG.	19L00356505										
729941-03-006	21	7592253	729941-03	3,275 LBS. 1,486 KG.	19L00356506										
729941-03-007	21	7592253	729941-03	3,275 LBS. 1,486 KG.	19L00356507										
729941-03-008	21	7592253	729941-03	3,280 LBS. 1,488 KG.	19L00356508										
729941-03-009	8	7592253	729941-03	1,250 LBS. 567 KG.	19L00356509										
TOTAL LIFTS	TOTAL PIECES			TOTAL NET WEIGHT											
9	176			27,445 LBS. 12,449 KG.											
L-Ladle Analysis of Heat P-Product Analysis of Parent Coil CHEMICAL ANALYSIS															
ID	C	MN	P	S	SI	CR	NI	MO	N	CU					
L 7592253	.10	1.11	.023	.001	.48	17.55	7.12	.19	.033	.24					
UPMCC Reviewed/Approved by QC Reviewed Specification(s): ALL Checked by: <i>Mark V...</i> Pages: 3 Date: 10/25/2019 TW METALS 49426595 MAR 18 2020 JH ACCEPTED BY															
*** CONTINUED ON NEXT PAGE ***															

DAS
82
9-89

Unified Performance Metals

Paul Isaacs
Paul Isaacs
Quality Associate

Customer Name: TW Metals - Exton
Customer PO: M49426595
UPM Sales Order: 755822
Date: 3/17/2020
Description/Form: STAINLESS 301 1/2 HARD - SHEET
Heat Number: 7592253 Ingot: 19L00356506

Width: 36.0000 Length: 120.0000
Size: .1250
Customer P/N:
Packing List Number: 143346-1
Quantity: 1092 LB 7 pc.

		AK Steel Corporation Metallurgical Test Report Coshocton Works 17400 State Route 16 Coshocton, OH 43812 U.S.A.		Page 2						
		Load No. 5391843 Srm No. 5391843								
C U S T O M E R	UNITED PERFORMANCE METALS INC 3475 SYMMES RD HAMILTON, OH 45015	S H I P T O	UNITED PERFORMANCE METALS O'NEAL PERFORMANCE METALS METAL PROCESSING DIVISION 3475 SYMMES ROAD HAMILTON, OH 45015	MILL ORDER NO. 271540-3395 PART NO.	PROCESSOR ORDER NO. CIN-35836-P14					
	BUYERS ORDER NO. CIN-35836-P14									
		ENGLISH UNITS --PRODUCT-- METRIC UNITS .1250 NOM 36.0000 X 120.0000								
SHIPPING DATE: 10/25/2019 REMARKS THIS MATERIAL WAS MELTED AND MANUFACTURED IN THE U.S.A. (DFARS 252.225.7001, 7008 & 7009 COMPLIANT). NO INTENTIONAL ADDITIONS OF MERCURY OR MERCURY COMPOUNDS, RADIUM, ALPHA SOURCE, AND LOW MELTING ALLOYS OR ELEMENTS CAPABLE OF FORMING LOW MELTING ALLOYS WERE MADE THROUGHOUT THE PROCESSING OF THIS MATERIAL. COILED PRODUCTS CONTAIN NO WELDS STEELMAKING PROCESS - EAF MELTED, AOD REFINED, CONTINUOUS CAST SLABS STAINLESS STEELS SUPPLIED BY AK STEEL CORPORATION COMPLY WITH THE EUROPEAN END -OF- LIFE VEHICLE DIRECTIVE 2000/53/EC (ELVD) AND THE RESTRICTION OF HAZARDOUS SUBSTANCES DIRECTIVE KNOWN AS EU-DIRECTIVE 2011/65/EU, EFFECTIVE JANUARY 3, 2013 (ROHS 2) RESIDUAL LEVELS OF H₂, Pb, Cd, & HEXAVALENT CHROMIUM ARE WITHIN ACCEPTABLE LIMITS ACCORDING TO THESE DIRECTIVES. AK STEEL HAS IMPLEMENTED, OPERATES AND MAINTAINS A QUALITY MANAGEMENT SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE PRESSURE EQUIPMENT DIRECTIVE (PED) 97/23/EC 7/2, ANNEX I, PARAGRAPH 4.3. MATERIAL SUPPLIED IN ACCORDANCE WITH EN 10204:2004 TYPE 3.1 UPM-QRS-001 REV. B, EXCEPTIONS DATED AND APPROVED ON 02/22/2018. PRODUCT DESCRIPTION CR SHT TYPE 301 STAINLESS NI 7.0% MIN TR FINISH 1/2 HARD SLIT EDGE * ASTM A 240-18 UNS S30100 CHEMISTRY ONLY * ASME SA-240 SECT I PART A 2017 EDITION CHEMISTRY ONLY * ASME SA-666 SECTION II PART A 2017 EDITION * ASTM F 899-12B (UNS S30100 TYPE 301) * AMS 5518M * ASTM A 666-15 * MIL-S-5059 D-AMEND-3 CANCELED * QQ-S-766-D (CANCELED) * UNS-S30100 13TH EDITION * UPM-301-1/2HD 06-04-08										
PARENT LIFT	POS	DIR	COND	% ELONG	ELONG METHOD	ELONG GAUGE LENGTH	TENSILE STRENGTH (KSI)	Y.S. .2% OFFSET (KSI)	ROCKWELL HARDNESS Tail	ROCKWELL HARDNESS Front
ID		(L, T, D)								
729941-03	T	T	A.S.T.M	193	MEASURED	2 Inch	167.6	130.4	C 36	C 35
										

*** CONTINUED ON NEXT PAGE ***

DAS
82
9-89

United Performance Metals

Paul Isaacs
Paul Isaacs
Quality Associate

Customer Name: TW Metals - Exton
Customer PO: M49426595
UPM Sales Order: 755822
Date: 3/17/2020
Description/Form: STAINLESS 301 1/2 HARD - SHEET
Heat Number: 7592253 Ingot: 19L00356506

Width: 36.0000 Length: 120.0000
Size: .1250
Customer P/N:
Packing List Number: 143346-1
Quantity: 1092 LB 7 pc.

		AK Steel Corporation Metallurgical Test Report Coshocton Works 17400 State Route 16 Coshocton, OH 43812 U.S.A.		Page 3																							
				Load No. 5391843 Sru No. 5391843																							
C U S T O M E R	UNITED PERFORMANCE METALS INC 3475 SYMMES RD HAMILTON, OH 45015		S H I P T O UNITED PERFORMANCE METALS O'NEAL PERFORMANCE METALS METAL PROCESSING DIVISION 3475 SYMMES ROAD HAMILTON, OH 45015	MILL ORDER NO. 271940-3395 PROCESSOR ORDER NO. CIN-35836-P14 BUYERS ORDER NO. CIN-35836-P14 PART NO. ENGLISH UNITS - PRODUCT - METRIC UNITS .1250 NOM 36.0000 X 120.0000																							
PARENT LIST	POS	DIR	COND	BEND																							
ID		(L, T, D)		90 2T																							
729941-03	T		A.S.T.M	PASS																							
PARENT LIST	POS	DIR	COND	% ELONG	ELONG METHOD																						
ID		(L, T, D)																									
729941-03	F	T	A.S.T.M	24.2	MEASURED																						
PARENT LIST	POS	DIR	COND	BEND																							
ID		(L, T, D)		90 2T																							
729941-03	F		A.S.T.M	PASS																							
<table border="1"> <thead> <tr> <th>PARENT LIST</th> <th>POS</th> <th>DIR</th> <th>COND</th> <th>% ELONG</th> <th>ELONG METHOD</th> <th>ELONG GAUGE LENGTH</th> <th>TENSILE STRENGTH (KSI)</th> <th>Y.S. 2% OFFSET (KSI)</th> <th>ROCKWELL HARDNESS Tail</th> <th>ROCKWELL HARDNESS Front</th> </tr> </thead> <tbody> <tr> <td>729941-03</td> <td>F</td> <td>T</td> <td>A.S.T.M</td> <td>24.2</td> <td>MEASURED</td> <td>2 Inch</td> <td>160.2</td> <td>125.6</td> <td>C 36</td> <td>C 35</td> </tr> </tbody> </table>						PARENT LIST	POS	DIR	COND	% ELONG	ELONG METHOD	ELONG GAUGE LENGTH	TENSILE STRENGTH (KSI)	Y.S. 2% OFFSET (KSI)	ROCKWELL HARDNESS Tail	ROCKWELL HARDNESS Front	729941-03	F	T	A.S.T.M	24.2	MEASURED	2 Inch	160.2	125.6	C 36	C 35
PARENT LIST	POS	DIR	COND	% ELONG	ELONG METHOD	ELONG GAUGE LENGTH	TENSILE STRENGTH (KSI)	Y.S. 2% OFFSET (KSI)	ROCKWELL HARDNESS Tail	ROCKWELL HARDNESS Front																	
729941-03	F	T	A.S.T.M	24.2	MEASURED	2 Inch	160.2	125.6	C 36	C 35																	
DAS 82 9-89																											
																											
THE CHEMICAL ANALYSIS AND PHYSICAL OR MECHANICAL TESTS REPORTED ABOVE ARE CORRECT AS CONTAINED IN THE RECORDS OF THIS CORPORATION. ALL TESTING IS DONE IN ACCORDANCE WITH A.S.T.M. STANDARDS UNLESS OTHERWISE NOTED AK Steel Corporation 513-425-5000 MKQCM004 REV-6, 1/14 Program Version LM4368 1.14																											
THIS CERTIFIED TEST REPORT HAS BEEN DELIVERED TO A CONSIGNEE OF MATERIAL PURCHASED FROM AK Steel Corporation. TO AVOID THE POSSIBILITY OF ITS MISUSE ON DELIVERY OF THE REPORT TO A THIRD PARTY IT MUST BE RECEIVED BY AND UNDER THE NAME OF SUCH CONSIGNEE. SIGNED <i>Christopher J. Rich</i> DATE 12/25/2019 TIME 08:20 PM CHRISTOPHER J. RICH QUALITY MANAGER																											

